

DERWENT PUBLICATIONS LTD.

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Laminated panel of glass and plastics - comprises plastics layer, layer of amorphous, thermoplastic polyester adhesive and glass layer

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Panel comprises (a) a layer of plastics plate; (b) a layer of adhesive comprising amorphous, internally plasticised thermoplastic polyester; and (c) a layer of glass board.

Polyester is prep'd. from (d) dicarboxylic acid such as (i) 80-100 mol.% of terephthalic acid or its alkylester or (ii) 0-20 mol.% of other dicarboxylic acid, and (e) glycol such as (iii) 5-30 mol.% ethylene glycol, (iv) 50-90 mol.% triethylene glycol or (v) 5-50 mol.% 1,5-pentanediol. Content (i)+(ii)= 100 mol.%, and (iii)+(iv)+(v)= 100 mol.%.

Plastics is e.g. polycarbonate, polyester, polystyrene, PVC or cellulose. Thickness of plastics plate is 0.5-6 mm. Thickness of glass board is pref. below 3 mm. Thickness of adhesive is pref. below 200 microns.

Laminated panel having a thin adhesive layer and improved adhesive strength, water resistance and weathering resistance is produced. The plastic plate has no whitening or cracking. (6pp Dwg. No. 0/3)

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